Appendix E

Preliminary Structural Drawings

Document No.	Title	Revision
16110 / L-01	Proposed Basement Layout	
16110 / L-02	Proposed Ground Floor Layout	
16110 / L-03	Proposed 1st Floor Layout	
16110 / S-01	Sections (Sheet 1)	
16110 / S-02	Sections (Sheet 2)	
16110 / MS-01	Proposed Construction Sequence	
16110 / MS-02	Basement Construction Methodology	

BEAM SCHEDULE

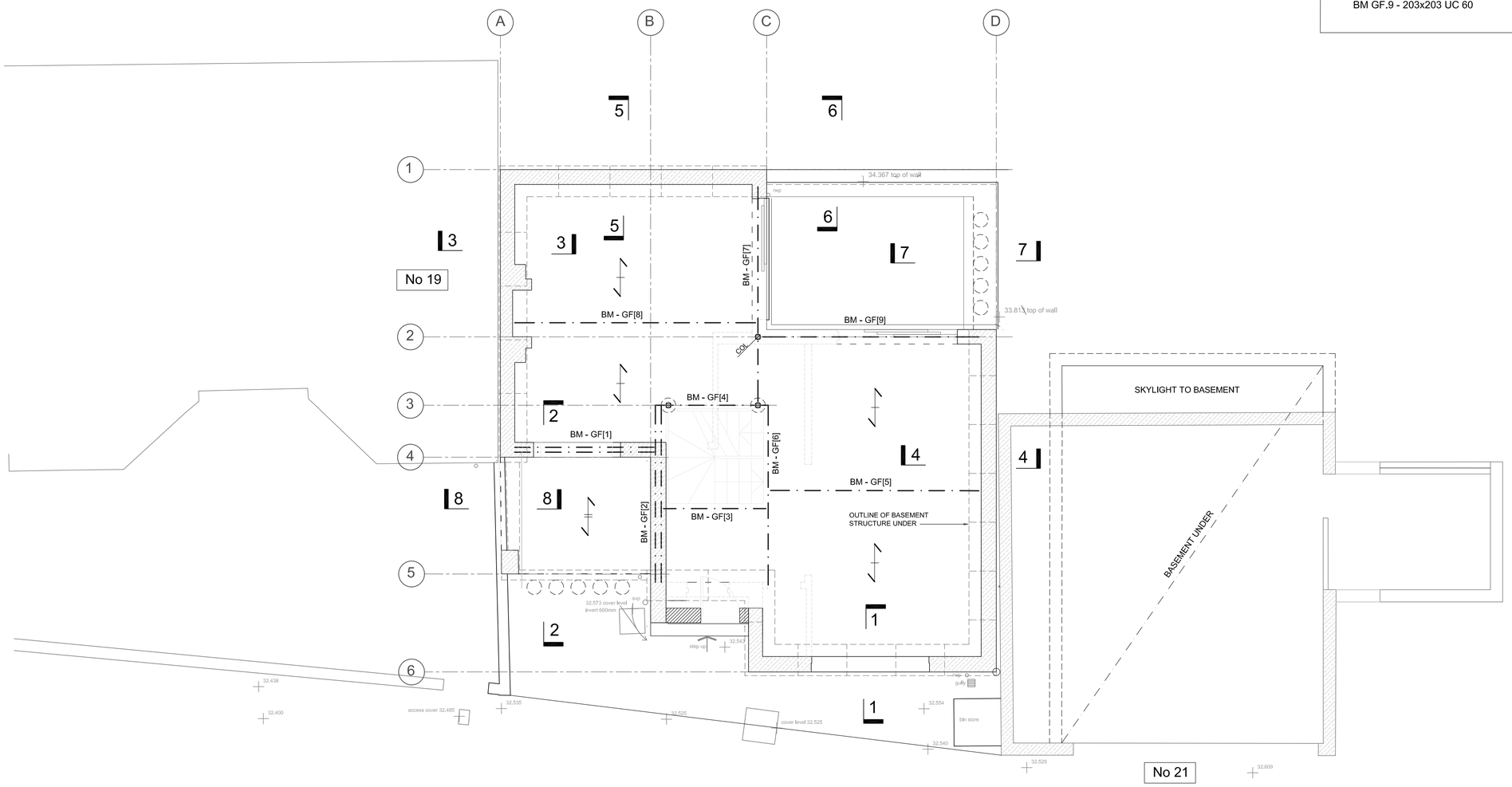
BM GF.1 - 2/200x90 PFC [PYNFORD]
BM GF.2 - 2/230x90 PFC [PYNFORD]
BM GF.3 - 203x133 UB 25
BM GF.4 - 203x203 UC 52
BM GF.5 - 203x203 UC 52
BM GF.6 - 203x203 UC 52
BM GF.7 - 203x203 UC 86
BM GF.8 - 203x203 UC 60
BM GF.9 - 203x203 UC 60

NOTES

1. DO NOT SCALE FROM THIS DRAWING, WORK ONLY TO FIGURED DIMENSIONS.
2. THE CONTRACTOR IS TO VERIFY ALL DIMSENSIONS ON SITE BEFORE COMMENCING WORKS. NOTIFY ANY DISCREPANCIES TO THE ARCHITECT & ENGINEER.
3. READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTS & ENGINEERS DRAWINGS AND SPECIFICATION.

KEY

- EXISTING WALL
- DEMOLISHED WALL
- NEW 20.5N/mm² BRICKWORK WALL IN GRADE (iii) MORTAR
- NEW 7.0N/mm² LIGHTWEIGHT BLOCKWORK WALL IN GRADE (iii) MORTAR
- WALL UNDER



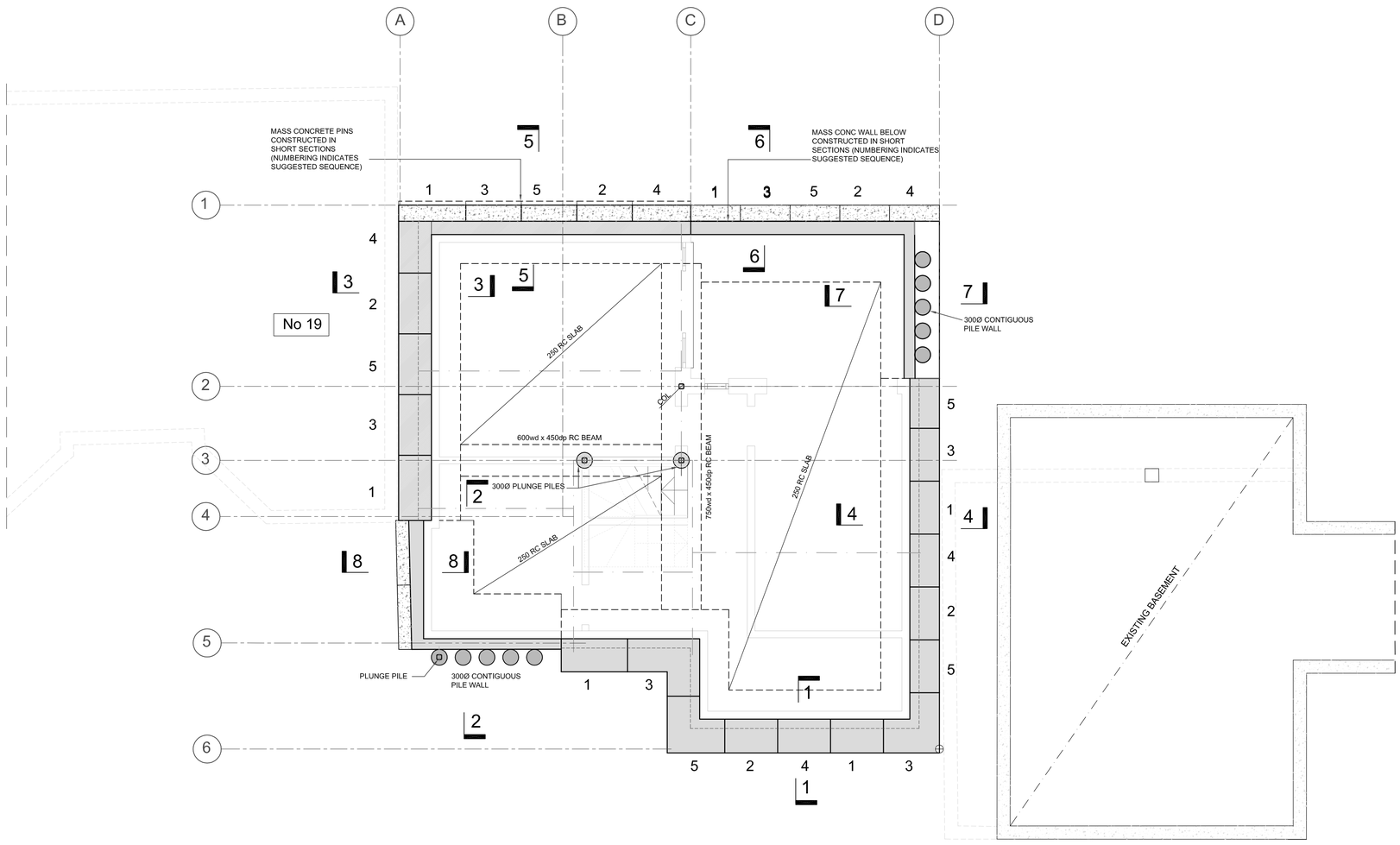
PROPOSED GROUND FLOOR PLAN

SCALE 0 1 2 3 4 5m

drg status **PRELIMINARY**

pr structural design

project 20 ALBERT TERRACE MEWS	job no 16110
	drg no L-02
title GROUND FLOOR LAYOUT	scale 1:50@A2
	date Sep 16
	drawn pgr



PROPOSED BASEMENT FLOOR PLAN

SCALE 0 1 2 3 4 5m

NOTES

1. DO NOT SCALE FROM THIS DRAWING, WORK ONLY TO FIGURED DIMENSIONS.
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drg status	**PRELIMINARY**
	pr structural design
project: 20 ALBERT TERRACE MEWS	job no: 16110
	drg no: L-01
title: BASEMENT LAYOUT	scale: 1:50@A2
	date: Sep 16
	drawn: pgr

BEAM SCHEDULE

BM 1.1 - 203x102 UB 23
BM 1.2 - 203x102 UB 23
BM 1.3 - 203x203 UC 86
BM 1.4 - 203x203 UB 86
BM 1.5 - 203x203 UB 60

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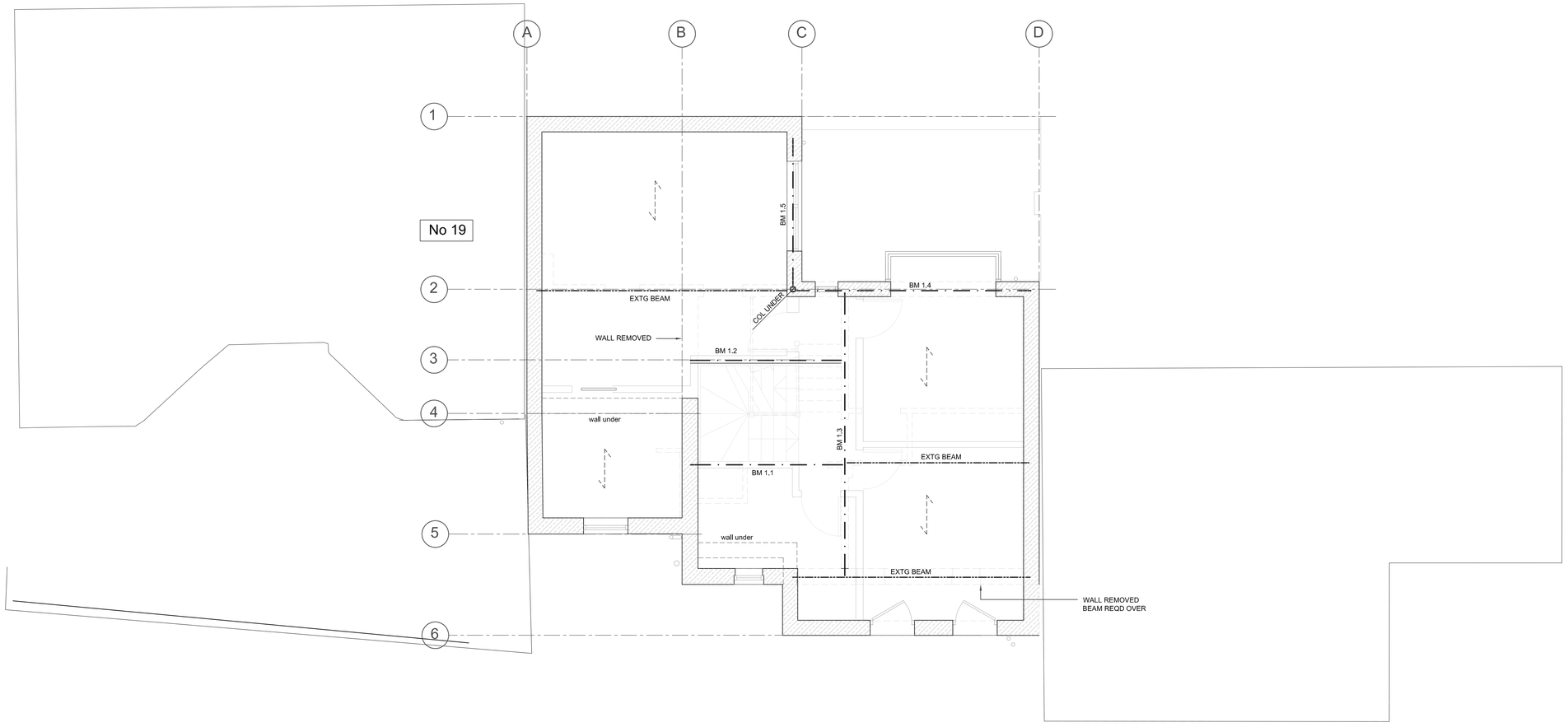
KEY

- EXISTING WALL
- DEMOLISHED WALL
- NEW 20.5N/mm² BRICKWORK WALL IN GRADE (iii) MORTAR
- NEW 7.0N/mm² LIGHTWEIGHT BLOCKWORK WALL IN GRADE (iii) MORTAR
- WALL UNDER



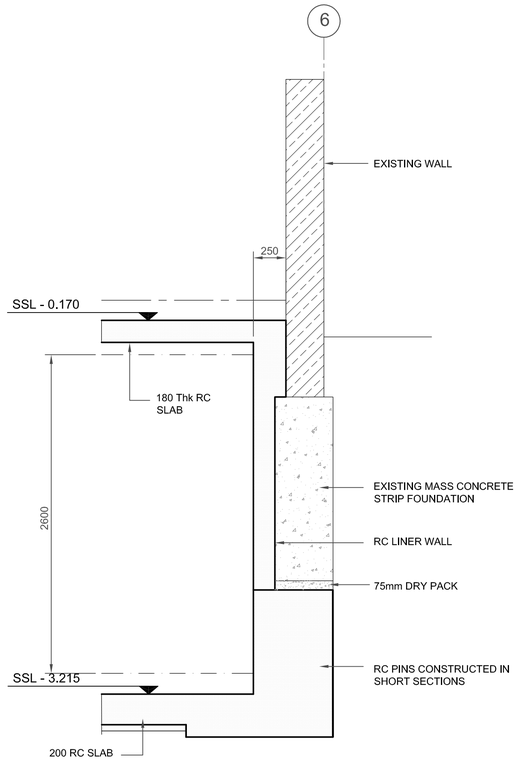
PROPOSED 1ST FLOOR PLAN

SCALE 0 1 2 3 4 5m

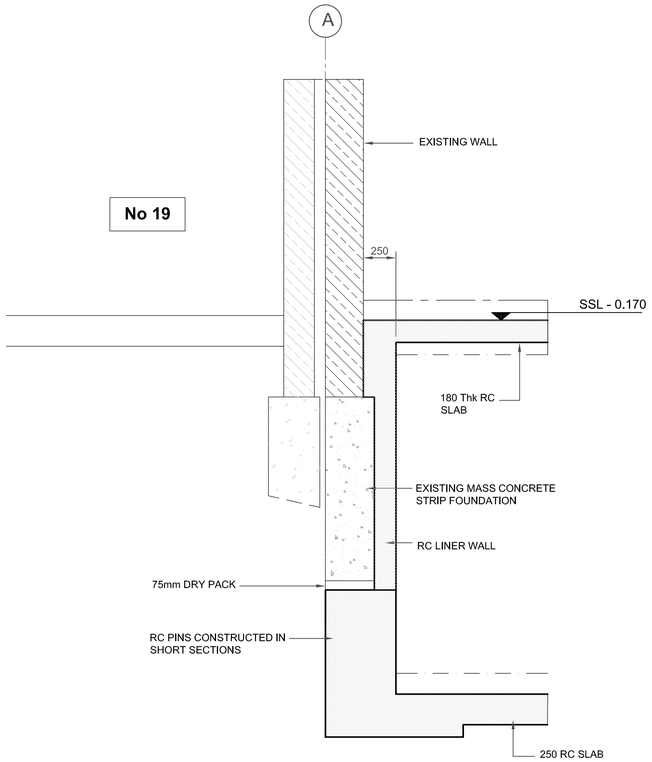
drg status **PRELIMINARY**

pr structural design

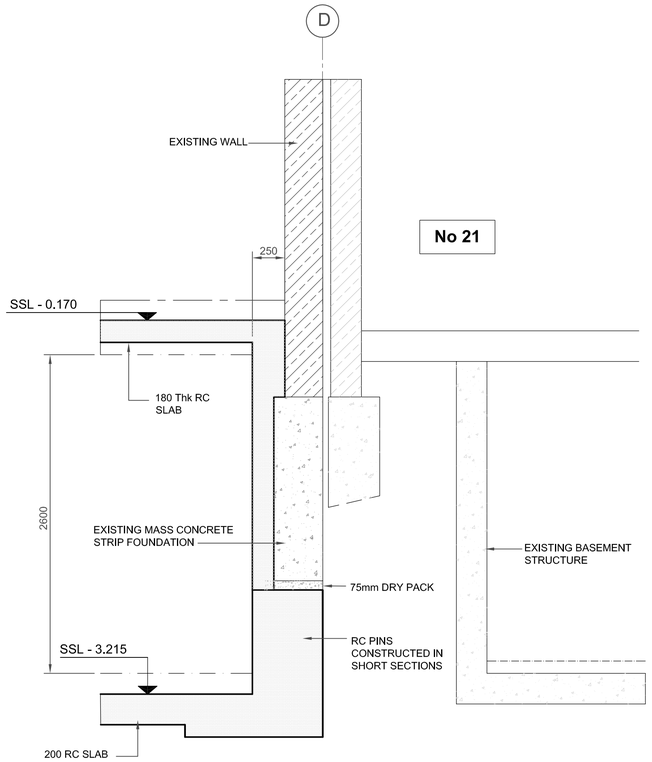
project 20 ALBERT TERRACE MEWS	job no 16110
	drg no L-03
title 1ST FLOOR LAYOUT	scale 1:50@A2
	date Sep 16
	drawn pgr



SECTION 1-1



SECTION 3-3



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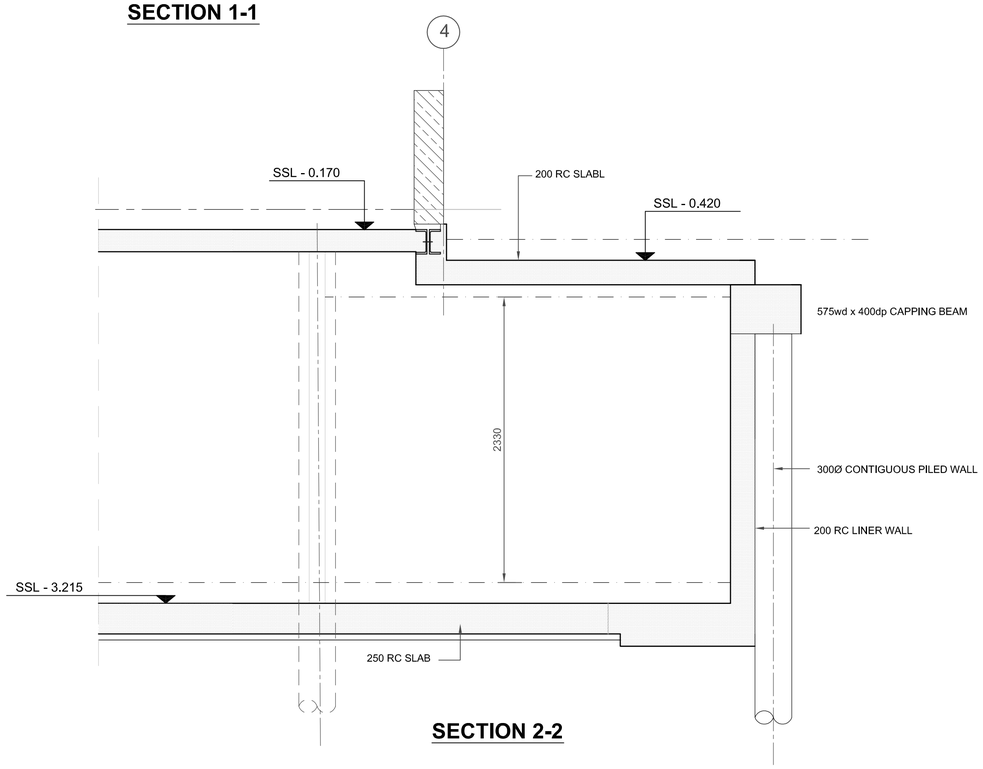


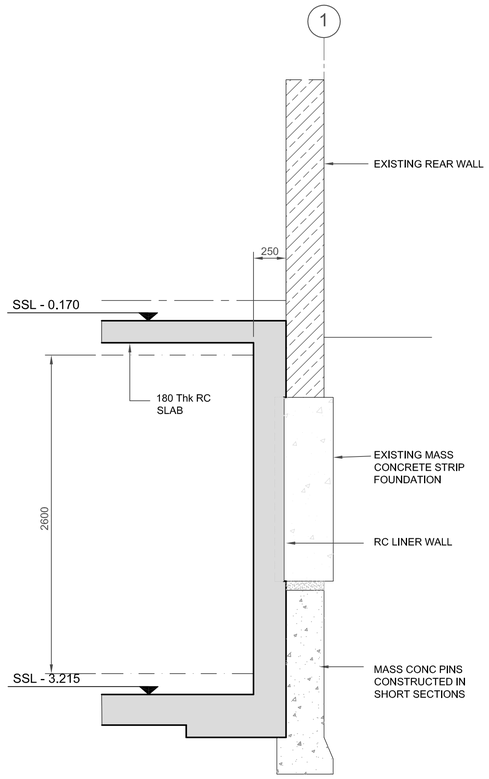
SECTION 2-2

SCALE 0 1 2 3 4 5m

drg status **PRELIMINARY**

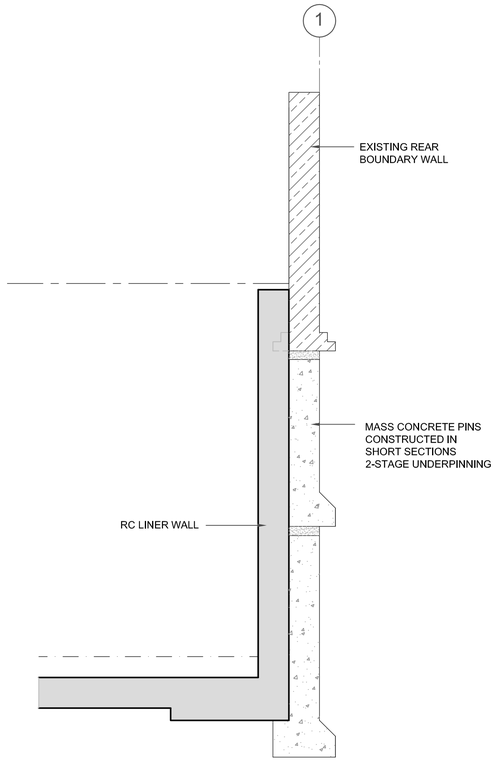
pr structural design

project 20 ALBERT TERRACE MEWS	job no 16110
	drg no S-01
title SECTIONS (Sheet 1)	scale 1:25@A1
	date Sep 16
	drawn pgr



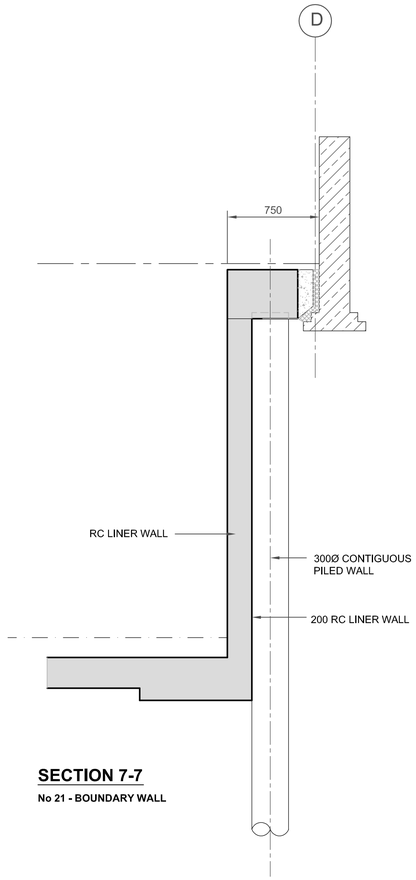
SECTION 5-5

REAR WALL



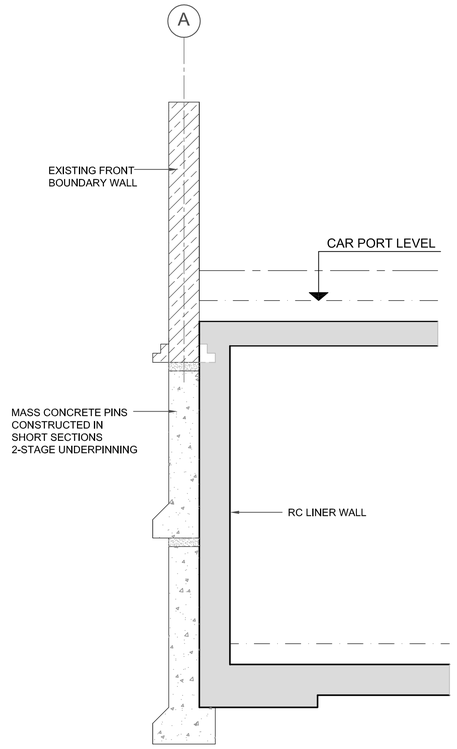
SECTION 6-6 (1)

REAR BOUNDARY WALL



SECTION 7-7

No 21 - BOUNDARY WALL



SECTION 8-8

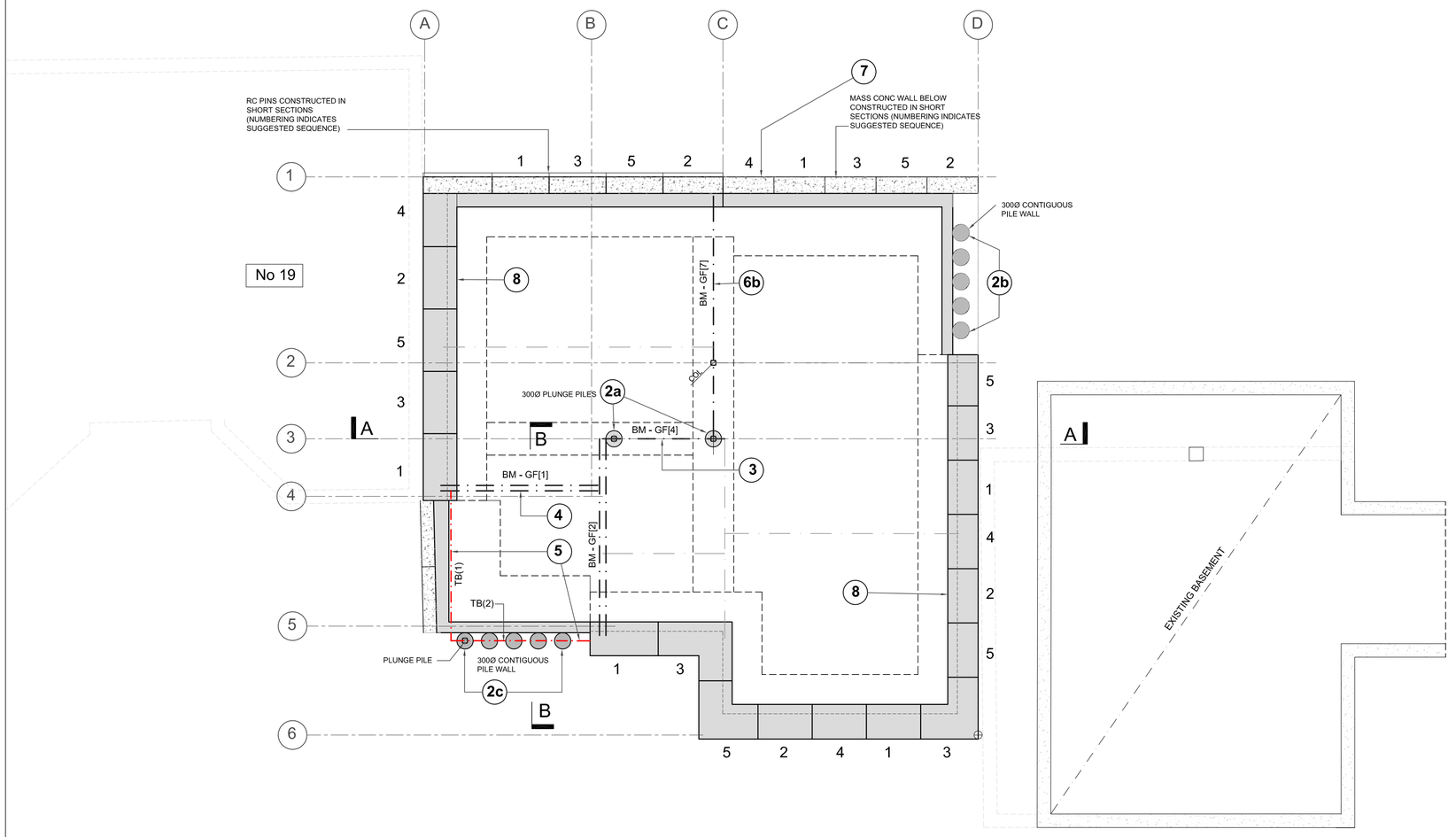
FRONT BOUNDARY WALL

SCALE 0 1 2 3 4 5m

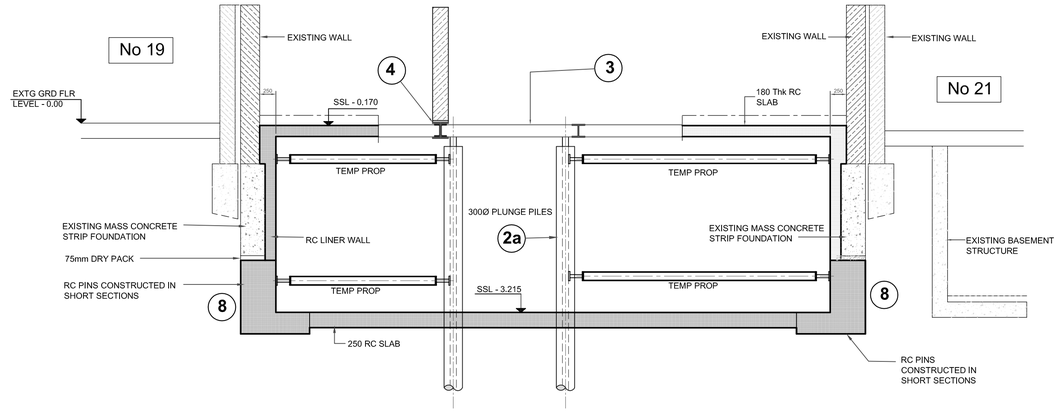
drg status **PRELIMINARY**

pr structural design

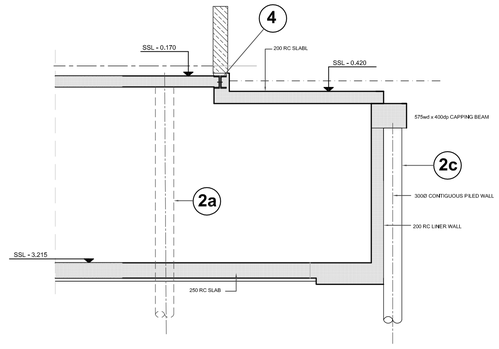
project 20 ALBERT TERRACE MEWS	job no 16110
	drg no S-02
title SECTIONS (Sheet 2)	scale 1:25@A1
	date Sep 16
	drawn pgr



PROPOSED BASEMENT FLOOR PLAN



SECTION A - A



SECTION B - B

SCALE 0 1 2 3 4 5m

NOTES

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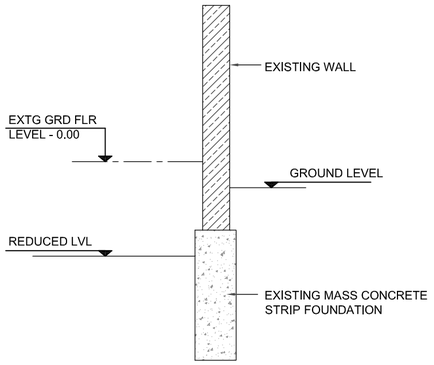
PROPOSED CONSTRUCTION SEQUENCE

1.BREAK OUT EXISTING SLAB & STAIRS AT GROUND FLOOR LEVEL IN PREPARATION FOR PILING.
2.PROCEED WITH PILING OPERATIONS AS FOLLOWS;
2a INSTALL INTERNAL PLUNGE PILES ALONG GRIDLINE (3)
2b INSTALL PILES ALONG GL(D) ADJACENT TO REAR BOUNDARY WALL ADJACENT TO No 21
2c INSTALL PILES AT FRONT NEXT TO CAR PORT
3. EXCAVATE LOCALLY AND INSERT BEAM GF(4) AT GROUND FLOOR LEVEL SUPPORTED ON PLUNGE PILES.
4. INSERT 'PYNFORD' BEAMS GF(1) & GF(2) TO SUPPORT LOADBEARING FRONT WALLS ADJACENT TO CAR PORT.
5. INSTALL TEMPORARY SUPPORT BEAMS TB(1) & TB(2) AT FRONT TO SUPPORT EXISTING PIER & 1ST FLOOR STRUCTURE.
6. WORKS TO ENABLE REMOVAL OF WALLS AND INSTALLATION OF PERMANENT STRUCTURE INCORPORATED WITHIN THE REAR WALLS
6a,TEMPORARILY SUPPORT EXISTING REAR WALLS AND FLOOR STRUCTURE AT 1ST FLOOR LEVEL.
6b. INSTALL BEAM GF(7) ALONG GL/C BETWEEN PLUNGE PILES BEAM AND REAR WALL.
6c. INSTALL COL AT 2/C AND BEAMS AT 1ST FLOOR LEVEL TO SUPPORT THE 1ST FLOOR AND ROOF STRUCTURE.
6d. REMOVE ANY TEMPORAY PROPPING FOLLOWING INSTALLATION OF THE MAIN SUPPORTING STRUCTURE AT THE 1ST FLOOR LEVEL. **N.B. ALL MAIN LOADBEARING STRUCTURE WILL BE SUPOPORTED ON THE PILES & EXISTING PERIMETER WALLS AT THIS STAGE TO ENABLE PROGRESSION OF THE BASEMENT EXCAVATIONS.**
7. CARRY OUT 1ST STAGE OF UNDERPINNING TO REAR BOUNDARY WALL AND FRONT LEFT HAND BOUNDARY WALL.
8, EXCAVATE TO REDUCED LEVEL IN ACCORDANCE WITH STAGE 1 OF THE BASEMENT CONSTRUCTION METHODOLOGY.
9. CARRY OUT THE UNDERPINNING OF THE PERIMETER WALLS IN SHORT SECTIONS SEQUENCE AS INDICATED ON THE PROPOSED LAYOUT.
10. UPON COMPLETION OF UNDERPINNING CONTINUE WITH RC LINER WALLS, BASEMENT SLAB AND GROUND FLOOR STRUCTURE IN ACCORDANCE WITH THE BASEMENT CONSTRUCTION METHODOLOGY DRWG. 16109/MS-02. ENSURE WALLS ARE LATERALLY PROPPED AS INDICATED UNTIL BASEMENT AND GROUND FLOOR SLABS ARE CONSTRUCTED.

drg status **PRELIMINARY**

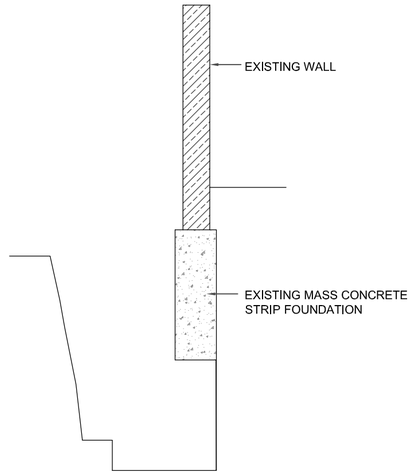
pr structural design

project: 20 ALBERT TERRACE MEWS	job no: 16110
	drg no: MS-01
title: PROPOSED CONSTUCTION SEQUENCE	scale: 1:50@A2
	date: Sep 16
	drawn: pgr



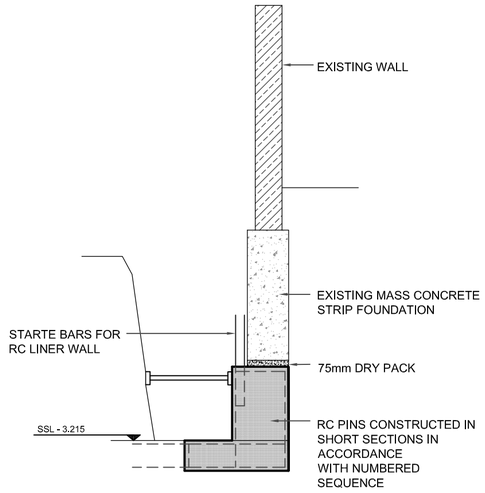
STAGE (1)

REMOVE GROUND FLOOR SLAB / SUSPENDED FLOOR AND REDUCE GRD. LEVEL TO TOP OF EXISTING FOOTING



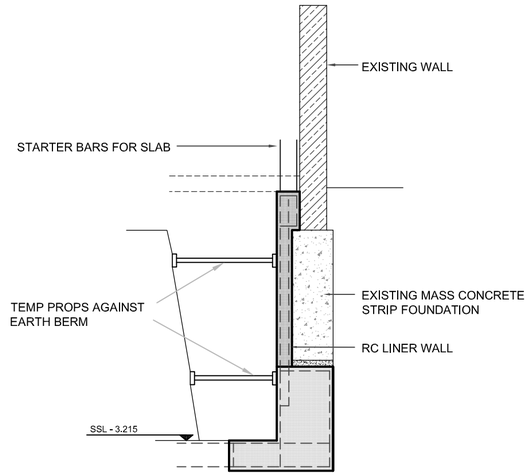
STAGE (2)

EXCAVATE PIN TO BASE FORMATION LEVEL
(REFER TO BASEMNT PLAN FOR PROPOSED SEQUENCE)



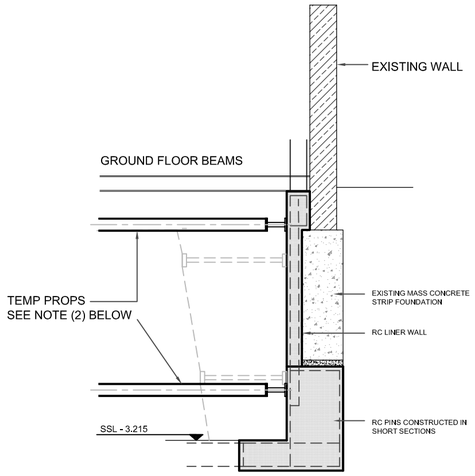
STAGE (3)

INSERT REBAR AND CAST RC PINS
WITH WALL / SLAB STARTER BARS
DRY PACK TIGHT TO U/S OF
EXISTING FOUNDATION
TEMP PROP AGAINST EARTH BERM



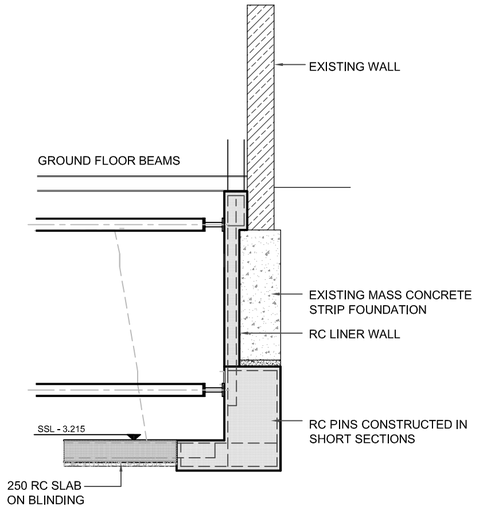
STAGE (4)

FIX REBAR AND CAST RC LINER WALL
WITH STARTER BARS FOR SLAB
PROP AGAINST EARTH BERM



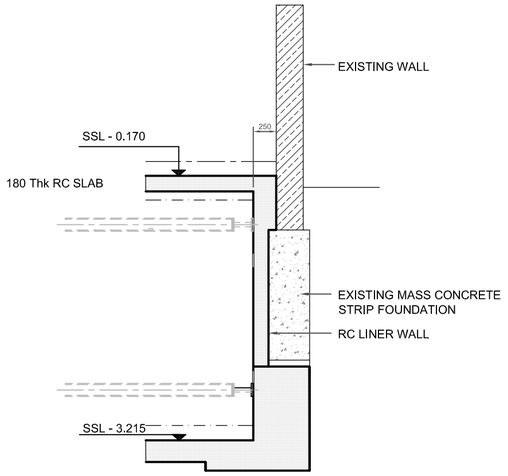
STAGE (5)

EXCAVATE BERM TO FORMATION LEVEL
TEMP PROPS TO BE INSTALLED AS
EXCAVATION PROCEEDS



STAGE (6)

LAY BLINDING AND
CAST BASEMENT RC SLAB



STAGE (7)

INSTALL GROUND FLOOR SLAB
REMOVE TEMP PROPPING AFTER
SUFFICIENTLY CURED

NOTES

1. READ IN CONJUNCTION WITH UNDERPINNING SPECIFICATION
2. **TEMPORARY PROPPING**
ALLOW FOR USING **MABEY SYSTEM 160 PROPS** OR EQIVALENT (SUBJECT TO ENGINEERS APPROVAL) AS NOTED BELOW;
TOP PROPS - USE SINGLE PROPS IN CONJUNCTION WITH FLOOR BEAMS AT MAX 2.5Mc/c
BOTTOM PROPS - USE DOUBLED UP PROPS AT MAX 2.5Mc/c

SCALE 0 1 2 3 4 5m

drg status **PRELIMINARY**

pr structural design

project 20 ALBERT TERRACE MEWS	job no 16109
	drg no MS-02
title BASEMENT CONSTRUCTION METHODOLOGY	scale 1:50@A2
	date Sep 16
	drawn pgr